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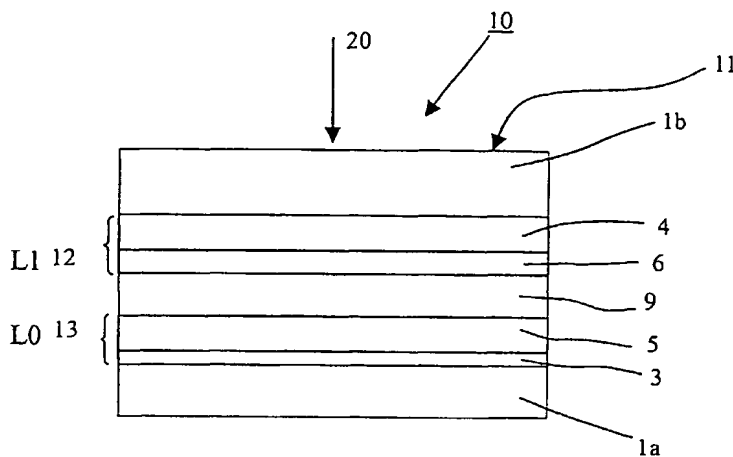
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(54) Title: MULTI-STACK OPTICAL DATA STORAGE MEDIUM AND USE OF SUCH MEDIUM



(57) Abstract: The present invention relates to a multi-stack optical data storage medium (10). The medium comprises a first substrate (1a) with present on a side thereof a first recording stack (13) named L_0 , a second substrate (1b) with present on a side thereof a second recording stack (12) named L_1 comprising a recordable type L_1 recording layer (4) having a thickness t_{RL1} and a complex refractive index $n_\lambda - i \cdot k_\lambda$ at a wavelength λ . A second reflective layer (6) is present adjacent the L_1 recording layer (4) at a side most remote from a radiation beam (20) entrance face (11) of the medium. The second recording stack L_1 (12) is present at a position closer to the entrance face (11) than the L_0 recording stack (13). A radiation beam transparent spacer layer (9) is sandwiched between the recording stacks (12, 13). In order to achieve compatibility with the DVD-9 ROM standard as far as reflection levels are concerned, the second reflective layer (6) mainly comprises the metal Cu and has a thickness t_{ML6} selected from the range of 8 - 20 nm and the thickness t_{RL1} and k_λ of the recordable L_1 recording layer (4) fulfils the formula $t_{RL1} \cdot k_\lambda \leq 8$ nm.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/005350 A1 (YAMADA NOBORU ET AL) 28 June 2001 (2001-06-28)	1
Y	paragraphs '0033!-'0047! paragraphs '0065!,'0066!; figure 1	2-7
Y	EP 1 189 218 A (MITSUI CHEMICALS INC) 20 March 2002 (2002-03-20)	2-7
	paragraphs '0012!-'0034!	
X	EP 1 187 119 A (MATSUSHITA ELECTRIC IND CO LTD) 13 March 2002 (2002-03-13)	1
	paragraphs '0052!-'0081!; figure 1	
X	EP 1 189 216 A (MATSUSHITA ELECTRIC IND CO LTD) 20 March 2002 (2002-03-20)	1
	paragraphs '0030!-'0051!	

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☒ Patent family members are listed in annex.

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